



Green Infrastructure & Stormwater Management CASE STUDY

Greenstreets - Church Ave, 14th Ave & 35th St, Brooklyn

Location: Church Ave, 14th Ave & 35th St,
Brooklyn, New York City, NY

Client: NYC Parks & Recreation

Design Firm(s): NYC Parks & Recreation

Landscape architect/Project contact:

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ASLA Chapter: New York



Project Specifications

Project Description: The Greenstreet at Church Ave, 14th Ave & 35th St, Brooklyn, converted a vast asphalt triangle of unused “zebra-striped” roadbed into a small park in spring, 2009. A sidewalk divides the site into standard ornamental garden planted with Gleditsia and Juniperus, and a bioretention planting with 2’ Greenstreets soil situated above 1’ of ¾-inch crushed blue stone on top of native soil. The bioretention side is planted with Juncus, Hemerocallis, Asclepias, Callicarpa, Itea, and Asters. The Greenstreet is celebrated by the community and disconnects 6,825 sq/ft of impervious area from the combined sewer system.

Project Type:

Transportation corridor/streetscape

A retrofit of an existing property

Design features: Bioretention facility, curb cuts, and gravel reservoir.

This project was designed to meet the following specific requirements or mandates: Not applicable

Impervious area managed: 5,000 sq/ft to 1 acre

Amount of existing green space/open space conserved or preserved for managing stormwater on site: Not applicable

The regulatory environment and regulator was supportive of the project.

Did the client request that other factors be considered, such as energy savings, usable green space, or property value enhancements? No.

Cost & Jobs Analysis

Estimated Cost of Stormwater Project: \$1,000,000 - \$5,000,000 (Public funding: Local - NYC Parks Dept - Capital Budget)

Was a green vs. grey cost analysis performed? Not applicable

Cost impact of conserving green/open space to the overall costs of the site



design/development project: The site was located on existing impervious roadbed.

Cost impact of conserving green/open space for stormwater management over traditional site design/site development approaches (grey infrastructure)?
Not applicable - no existing green space

Number of jobs created: 1.06

Job hours devoted to project: Not available

Planning and Design: Not available

Construction: Not available

Annual Maintenance: Not available

Performance Measures

Stormwater reduction performance analysis:

Disconnected 6,825 sq/ft of impervious surface from sewers

Community & economic benefits that have resulted from the project: Greenstreets not only beautify the urban landscape, but also calm busy traffic, clean the air, cool the city, sequester carbon, increase pedestrian safety, provide environment for wildlife, mitigate flooding, and capture stormwater for irrigation.

Additional Information

Links to images: http://www.nycgovparks.org/sub_your_park/trees_greenstreets.html

http://www.nycgovparks.org/sub_your_park/trees_greenstreets/images/NYC_Greenstreets-Green_Infrastructure_for_Stormwater_Management.pdf